

Year 5 Science – Does everything that goes up, always come back down?



English

Explanation text about forces
Fiction – the man who walked between the towers.

Maths

Multiplication and division
Fractions

Science (physics)

Forces
Levers and pulleys and gears

Art

Perspective drawings
Designing and building a skyscraper

DT

Making structures
Making a moving car

PE

Gymnastics

Music

How does music bring us together?

RE - Christianity

Why do Christians believe Jesus was the Messiah?

PSHE

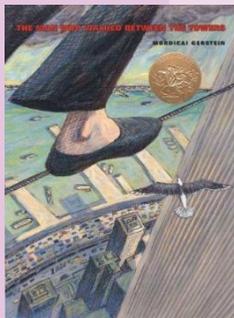
Healthy sleep habits; sun safety; medicines, vaccinations, immunisations and allergies

ICT

Creating Media – Video editing

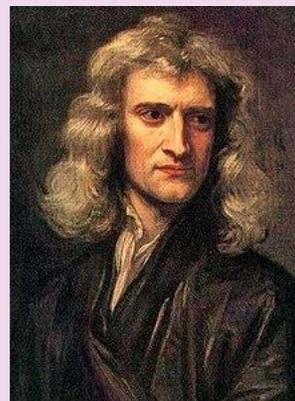
French

Hobbies



Previous Learning

Forces and magnets
Friction
Space



Influential Scientist

Isaac Newton

Science Vocabulary

Gravity, descend, Newton, air resistance, mass, weight, friction, decelerate, smooth, rough, surface, air resistance, surface area, air particles, drag, direction, water resistance, water particles, float, sink, effort, load, energy, fulcrum, pivot, lever, mechanical, pulley, gears, cog, rotate

Maths

Vocabulary

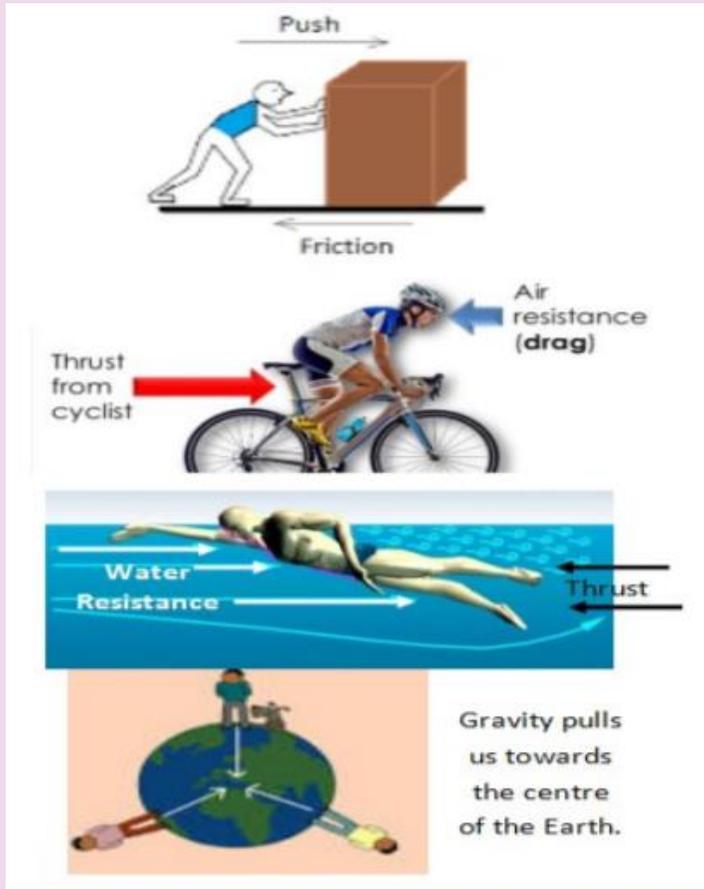
Multiply
Divide
Partition
Factor
Multiple
Remainder
Sum
Total
Equivalent
Numerator
Denominator
Simplify
Improper
Mixed number

What? (key knowledge)		Type of Force	
Forces		What is air resistance?	Air resistance slows down moving objects, because air slows you down as you move through it.
What is a force?	A force is either a push or a pull.		
Forces can make things...	Speed up, slow down, change shape and change direction.	What is a lever?	A lever is a simple machine which helps us to lift objects.
What is gravity?	Gravity is the forces that pulls objects down towards the centre of the Earth.		
What is friction?	Friction happens when two surfaces touch each other	What is a pulley?	Pulleys also help to lift heavy objects. They include at least one wheel and a length of rope.
What is water resistance?	Water resistance slows down moving objects, because water slows you down as you move through it.		

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Topic Fridge words



friction	Friction is a force between two surfaces that are sliding, or trying to slide, across each other.
gravity	Gravity is a force which tries to pull two objects towards each other.
air resistance	Air resistance is a type of friction between air and another material. For example, when an aeroplane flies through the air.
water resistance	If you go swimming, there is friction between your skin and the water particles.
levers	A lever can be described as a long rigid body with a fulcrum along its length.
pulleys	Pulley is a simple machine and comprises of a wheel on a fixed axle, with a groove along the edges to guide a rope or cable.
gears	Gears are wheels with teeth that slot together. When one gear is turned the other one turns as well.
parachute	A parachute is a device used to slow down an object that is falling towards the ground. As the parachute opens, the air resistance increases.
Newton	During his lifetime, Newton developed the theory of gravity and made breakthroughs in the area of optics, such as the reflecting telescope.